

EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L3	327	(wear\$4 with (hand or finger) with (phone or cellular))	US-PGPUB; USPAT	OR	ON	2006/05/23 20:42
L4	18	3 and glove\$5	US-PGPUB; USPAT	OR	ON	2006/05/23 20:42
L5	7	4 and microphone	US-PGPUB; USPAT	OR	ON	2006/05/23 20:42
L6	17765	((hand or finger) with (phone or cellular))	US-PGPUB; USPAT	OR	ON	2006/05/23 20:42
L7	434	6 and glove\$5	US-PGPUB; USPAT	OR	ON	2006/05/23 20:42
L8	159	7 and microphone	US-PGPUB; USPAT	OR	ON	2006/05/23 20:42

EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	224382	"345"/\$.ccls. or "700"/\$.ccls. or "709"/\$.ccls. or "340"/\$.ccls.	US-PGPUB; USPAT	OR	ON	2006/05/05 16:19
L2	1834	1 and glove	US-PGPUB; USPAT	OR	ON	2006/05/05 16:20
L3	356	2 and microphone	US-PGPUB; USPAT	OR	ON	2006/05/05 16:21
L4	162	3 and finger	US-PGPUB; USPAT	OR	ON	2006/05/05 16:32
L5	13	("4414537" "4613139" "5488362" "5581484" "5655910" "5987310" "6089872" "6097369" "6098886" "6128004" "6141643" "6154199" "6452584").PN.	US-PGPUB; USPAT	OR	ON	2006/05/05 16:32
L6	3	5 and microphone	US-PGPUB; USPAT	OR	ON	2006/05/05 16:32
L7	9	("5486112" "5581484" "5987310" "6141643" "6230135" "6281883" "6380923" "6424334" "6466232").PN.	US-PGPUB; USPAT	OR	ON	2006/05/05 16:33
L8	8	7 and microphone	US-PGPUB; USPAT	OR	ON	2006/05/05 16:33

IDS Review

Set	Items	Description
S1	37128	GLOVE? OR MITT? ? OR MITTEN? OR HAND()WEAR??? OR HANDWEAR? OR PALM??? OR HAND()APPAREL
S2	3062	FINGER?(2N) (MITTEN? OR COVER? OR MUFF OR CUFF??? ? OR GAUNT- TLET? OR APPAREL? OR SHEATH? OR SLEEVE? OR PROTECT? OR VIRTUA- L()REALIT?)
S3	52998	MICROPHONE? OR MICRO()PHONE? OR INPUT()TRANSDUCER?()DEVICE? OR CONDENSER() (MIC OR MIKE) OR MIC
S4	7082	S3(5N) (CONTAIN??? OR PROVID? OR SUPPLY? OR SUPPLIE? ? OR F- URNISH? OR EMBED? OR FIT OR FITS OR FITTED OR FITTING OR BUIL- TIN OR (BUILD? OR BUILT) () IN OR PRE()SUPPL?)
S5	16843	S3(5N) (WITHIN OR INSIDE? OR INTERNAL? OR INTERIOR? OR INTE- RIOUR? OR IN OR INTRA OR SELF()CONTAIN??? OR HAS OR CONTAIN??? OR INLAY? OR INLAID? OR INGRAIN? OR IMPLANT?)
S6	1766930	CONTROLLER? OR ACTUATOR? OR MICRO()SENSOR? OR SENSOR? OR M- ICROSENSOR? OR SERVOMECHANISM? OR SERVO()MECHANISM? OR (HAND(-)HELD OR HANDHELD?) () (DEVICE? OR APPARAT? OR MECHANISM?)
S7	269439	S6(5N) (CONTAIN??? OR PROVID? OR SUPPLY? OR SUPPLIE? ? OR F- URNISH? OR EMBED? OR FIT OR FITS OR FITTED OR FITTING OR BUIL- TIN OR (BUILD? OR BUILT) () IN OR PRE()SUPPL?)
S8	623474	S6(5N) (WITHIN OR INSIDE? OR INTERNAL? OR INTERIOR? OR INTE- RIOUR? OR IN OR INTRA OR SELF()CONTAIN??? OR HAS OR CONTAIN??? OR INLAY? OR INLAID? OR INGRAIN? OR IMPLANT?)
S9	4	S1:S2 AND S4:S5 AND S7:S8
S10	4	S9 NOT PR>2000
S11	30	S1:S2(10N)S3
S12	8	S1:S2(10N)S4:S5
S13	30	S11:S12
S14	30	S13 NOT PR>2000
S15	24	S14 NOT PR=2001:2006
S16	24	IDPAT (sorted in duplicate/non-duplicate order)
S17	40850	S1:S2 OR HAPTIC?
S18	0	S17(10N) (S4:S5 AND S7:S8)
S19	1250	AU=(MILLER S? OR MILLER, S?)
S20	0	(STEPHEN OR STEVE OR STEVEN OR STEVIE) (2N)MILLER
S21	107	17(10N)S3(10N)S6
S22	33	S9:S15
S23	107	S21 NOT S22
S24	107	S23 NOT PR>2000
S25	105	S24 NOT PR=2001:2006
S26	105	IDPAT (sorted in duplicate/non-duplicate order)
S27	9	S19 AND S17

File 347:JAPIO Dec 1976-2005/Dec(Updated 060404)

(c) 2006 JPO & JAPIO

File 350:Derwent WPIX 1963-2006/UD,UM &UP=200630

(c) 2006 Thomson Derwent

16/3,K/13 (Item 13 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2006 Thomson Derwent. All rts. reserv.

013119562

WPI Acc No: 2000-291433/200025

XRPX Acc No: N00-218487

Device for simulation of visual orientation of pilot

Patent Assignee: TEST FLIGHT INST (TEST-R)

Inventor: KABACHINSKII V V; KALININ YU I; SAPARINA T P

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
RU 2128860	C1	19990410	RU 97103115	A	19970304	200025 B

Priority Applications (No Type Date): RU 97103115 A 19970304

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
RU 2128860	C1			G09B-009/08	

Abstract (Basic):

... with liquid- crystal matrices, semi-transparent reflectors and video mixers, system of stereo sounds with **built - in microphone** and head phones, receptor units which are mounted in **gloves** , jackboots (knee caps), jacket (armored jacket), which are equipped with movement detectors, tension detectors and...

16/3,X/14 (Item 14 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2006 Thomson Derwent. All rts. reserv.

013110765 **Image available**
WPI Acc No: 2000-282636/200024
XRPX Acc No: N00-212735

Hand adaptive telephone for airline guard support, includes acoustic
interfaces in glove which is coupled to telephone circuitry including
similar interfaces in a selective manner

Patent Assignee: MOTOROLA INC (MOTI)

Inventor: KASCHKE K D

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 6044153	A	20000328	US 9816878	A	19980130	200024 B

Priority Applications (No Type Date): US 9816878 A 19980130

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
US 6044153	A	20	H04M-001/00	

Abstract (Basic):

... The hand adaptive telephone (10) consists of a **glove** (12) and
user interface comprising ear piece and **microphone** transducers
(18,20). User interface is coupled to telephone circuitry including
transducer. A switch enables...

16/3,K/15 (Item 15 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2006 Thomson Derwent. All rts. reserv.

013050379 **Image available**
WPI Acc No: 2000-222233/200019
XRPX Acc No: N00-166336

Real time remotely controlled robot that is controlled by an operator
reacting to feedback signals originating from robot using a force
reflecting glove attached to exoskeletal arm fixed to operator's chair
Patent Assignee: FANU AMERICA CORP (FANU-N)
Inventor: AKEEL H A; YEE A G
Number of Countries: 001 Number of Patents: 001
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 6016385	A	20000118	US 97905016	A	19970811	200019 B

Priority Applications (No Type Date): US 97905016 A 19970811

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 6016385	A		12	G05B-015/00	

Abstract (Basic):

... temperature, heat flow, vibration and surface roughness,
detectable by the operator's hand in the glove . A pair of video
cameras and microphones are located on the robot head and transmit
visual and audio information to helmet (13...

16/3,K/17 (Item 17 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2006 Thomson Derwent. All rts. reserv.

012642473 **Image available**
WPI Acc No: 1999-448578/199938
XRPX Acc No: N99-335064

Virtual reality terminal equipment - inputs image voice and finger
movement of virtual reality to host computer which outputs corresponding
data and is controlled by virtual reality control unit

Patent Assignee: NIPPON TELEGRAPH & TELEPHONE CORP (NITE)

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 11184584	A	19990709	JP 97351635	A	19971219	199938 B

Priority Applications (No Type Date): JP 97351635 A 19971219

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
JP 11184584	A		5	G06F-003/00	

...Abstract (Basic): NOVELTY - A micro CCD camera (26), **microphone** (27)
and the **glove** (25) input the image, voice and **finger** movement of
virtual reality, respectively to the host computer (10) by radio
communication. The host computer outputs the processed...
...equipment. (10) Host computer; (22) Virtual reality control unit; (23)
Display; (24) Stereo headphone; (25) **Glove**; (26) CCD camera; (27)
Microphone.

16/3,K/23 (Item 23 from file: 347)
DIALOG(R)File 347:JAPIO
(c) 2006 JPO & JAPIO. All rts. reserv.

04578744 **Image available**
DEVICE AND METHOD FOR IMAGE EFFECT ADDITION

PUB. NO.: 06-250644 [JP 6250644 A]
PUBLISHED: September 09, 1994 (19940909)
INVENTOR(s): MENJU YOSHITSUGU
APPLICANT(s): CASIO COMPUT CO LTD [350750] (A Japanese Company or Corporation), JP (Japan)
APPL. NO.: 05-039829 [JP 9339829]
FILED: March 01, 1993 (19930301)
JOURNAL: Section: P, Section No. 1839, Vol. 18, No. 645, Pg. 41, December 07, 1994 (19941207)

ABSTRACT

... output part 43, and an image display part 44 which displays an image signal, a **microphone** 45, and a data **glove** 46 for inputting the movement and motion of a hand. Further, the device is equipped...

... the operation state of a user from the position and motion from the HMD 41, **microphone** 45, and data **glove** 46 and a speech control part 48 which controls speech signals or speech information from...

Set	Items	Description
S1	207163	GLOVE? OR MITT? ? OR MITTEN? OR HAND()WEAR??? OR HANDWEAR? OR HAND()APPAREL? OR HAPTIC?()INTERFACE? OR HAND()WEARABL?()C- OMPUT? OR HAPTIC?
S2	9208	(BODY? OR CYBER? OR DATA)() (SUIT? ? OR GLOVE?) OR BODYSUIT? OR CYBERGLOVE? OR DATAGLOVE?
S3	3435	FINGER?(2N) (MITTEN? OR COVER? OR MUFF OR CUFF??? ? OR GAUN- TLET? OR APPAREL? OR SHEATH? OR SLEEVE? OR PROTECT? OR VIRTUA- L()REALIT?)
S4	1083	(HAND? ? OR FINGER? OR PALM??? ?) (10N) (PROSTHETIC? OR PROS- THES?)
S5	148515	MICROPHONE? OR MICRO()PHONE? OR INPUT()TRANSDUCER?()DEVICE? OR CONDENSER() (MIC OR MIKE) OR MIC
S6	30290	S5(7N) (CONTAIN??? OR PROVID? OR SUPPLY? OR SUPPLIE? ? OR F- URNISH? OR EMBED? OR FIT OR FITS OR FITTED OR FITTING OR BUIL- TIN OR (BUILD? OR BUILT) () IN OR PRE()SUPPL? OR INCLUD?)
S7	54440	S5(7N) (WITHIN OR INSIDE? OR INTERNAL? OR INTERIOR? OR INTE- RIOUR? OR IN OR INTRA OR SELF()CONTAIN??? OR HAS OR CONTAIN??? OR INLAY? OR ATTACH? OR INGRAIN? OR IMPLANT? OR INCLUS?)
S8	1483558	CONTROLLER? OR ACTUATOR? OR SENSOR? OR SERVOMECHANISM? OR - SERVO()MECHANISM? OR (HAND()HELD OR HANDHELD?) () (DEVICE? OR A- PPARAT? OR MECHANISM?)
S9	313875	S8(7N) (CONTAIN??? OR PROVID? OR SUPPLY? OR SUPPLIE? ? OR F- URNISH? OR EMBED? OR FIT OR FITS OR FITTED OR FITTING OR BUIL- TIN OR (BUILD? OR BUILT) () IN OR PRE()SUPPL? OR INCLUD?)
S10	534827	S8(7N) (WITHIN OR INSIDE? OR INTERNAL? OR INTERIOR? OR INTE- RIOUR? OR IN OR INTRA OR SELF()CONTAIN??? OR HAS OR CONTAIN??? OR INLAY? OR ATTACH? OR INGRAIN? OR IMPLANT? OR INCLUS?)
S11	129	S1:S4(100N)S5:S7(100N)S8:S10
S12	66	S11 NOT PD>2000
S13	54	S12 NOT PD=2001:2006
S14	36	RD (unique items)
File	9:Business & Industry(R)	Jul/1994-2006/May 08 (c) 2006 The Gale Group
File	13:BAMP 2006/Apr W5	(c) 2006 The Gale Group
File	15:ABI/Inform(R)	1971-2006/May 13 (c) 2006 ProQuest Info&Learning
File	16:Gale Group PROMT(R)	1990-2006/May 15 (c) 2006 The Gale Group
File	47:Gale Group Magazine DB(TM)	1959-2006/May 15 (c) 2006 The Gale group
File	75:TGG Management Contents(R)	86-2006/May W1 (c) 2006 The Gale Group
File	88:Gale Group Business A.R.T.S.	1976-2006/May 08 (c) 2006 The Gale Group
File	98:General Sci Abs	1984-2004/Dec (c) 2005 The HW Wilson Co.
File	141:Readers Guide	1983-2006/Feb (c) 2006 The HW Wilson Co
File	148:Gale Group Trade & Industry DB	1976-2006/May 15 (c)2006 The Gale Group
File	160:Gale Group PROMT(R)	1972-1989 (c) 1999 The Gale Group
File	239:Mathsci	1940-2006/Jun (c) 2006 American Mathematical Society
File	275:Gale Group Computer DB(TM)	1983-2006/May 12 (c) 2006 The Gale Group
File	369:New Scientist	1994-2006/Feb W4 (c) 2006 Reed Business Information Ltd.
File	370:Science	1996-1999/Jul W3

(c) 1999 AAAS
File 484:Periodical Abs Plustext 1986-2006/May W1
(c) 2006 ProQuest
File 553:Wilson Bus. Abs. 1982-2006/May
(c) 2006 The HW Wilson Co
File 610:Business Wire 1999-2006/May 15
(c) 2006 Business Wire.
File 613:PR Newswire 1999-2006/May 15
(c) 2006 PR Newswire Association Inc
File 621:Gale Group New Prod.Annou.(R) 1985-2006/May 15
(c) 2006 The Gale Group
File 624:McGraw-Hill Publications 1985-2006/May 12
(c) 2006 McGraw-Hill Co. Inc
File 634:San Jose Mercury Jun 1985-2006/May 13
(c) 2006 San Jose Mercury News
File 635:Business Dateline(R) 1985-2006/May 13
(c) 2006 ProQuest Info&Learning
File 636:Gale Group Newsletter DB(TM) 1987-2006/May 12
(c) 2006 The Gale Group
File 647:CMP Computer Fulltext 1988-2006/Jun W1
(c) 2006 CMP Media, LLC
File 674:Computer News Fulltext 1989-2006/Apr W5
(c) 2006 IDG Communications
File 696:DIALOG Telecom. Newsletters 1995-2006/May 12
(c) 2006 Dialog
File 810:Business Wire 1986-1999/Feb 28
(c) 1999 Business Wire
File 813:PR Newswire 1987-1999/Apr 30
(c) 1999 PR Newswire Association Inc

14/3,K/3 (Item 1 from file: 15)
DIALOG(R)File 15:ABI/Inform(R)
(c) 2006 ProQuest Info&Learning. All rts. reserv.

02567170 269079801

Position and orientation sensing in virtual environments

Robert J Stone

Sensor Review v16n1 PP: 40-46 1996

ISSN: 0260-2288 JRNL CODE: SEN

WORD COUNT: 3719

...TEXT: and the Lincoln Wand gained quite a significant following of supporters.

Mattel's early Power **Glove** games peripheral was one of the first "casualties" of a frenetic and legally fraught virtual reality market. The low-cost of the **glove** -around \$US80 -- came about as a result of its simple time-of-- flight ultrasonic hand tracking system. Three emitters and two **sensors** were mounted on the **glove** and around the video monitor respectively, providing two-axis hand tracking (with other degrees of freedom being provided by a wrist-mounted control panel). Many thought that the Power **Glove** might be an encouraging first step towards achieving low-- cost peripherals for virtual reality. With...

...mind, sadly, and despite generating \$US40 million by the fourth quarter of 1989, the Power **Glove** dropped out of production before even reaching the European market. One of the reasons for...Baron) based on three emitters located on the vertices of an equilateral triangle framework, 30cm in side length. A smaller framework houses three **microphones** and may be mounted onto a hand **controller**, which may take the form of a purpose-built mouse (e.g. as developed by...

...restrictive when compared to absolute electromechanical trackers.

Logitech Tracking System on VR Solutions commander hand **controller** with deformable virtual tissue demonstration

Logitech six-degree of freedom mouse

In the virtual reality...

14/3,K/4 (Item 2 from file: 15)

DIALOG(R)File 15:ABI/Inform(R)

(c) 2006 ProQuest Info&Learning. All rts. reserv.

00585488 92-00661

To Boldly Go Where No One Wants to Go

Greenberger, Leonard S.

Public Utilities Fortnightly v128n11 PP: 37-39 Dec 1, 1991

ISSN: 0033-3808 JRNL CODE: PUF

WORD COUNT: 1818

...TEXT: as far as Roman is concerned. "What we want to create is something known as ' **sensor** fusion,'" he said. "It's why we have a rich life. Our senses can all...

...We need to mimic that." To do that, robot hands will someday be equipped with **sensor** pads. By placing a hand into a specially lined **glove** , a remote operator will actually be able to "feel" what the robot feels. He or ...

...what they've just picked up is soft or sharp, hot or cold. Add a **microphone** , earphones, and maybe an odor **sensor** , and the operator will have achieved complete "telepresence" --the ability to be somewhere you are ...

14/3,K/6 (Item 2 from file: 16)
DIALOG(R)File 16:Gale Group PROMT(R)
(c) 2006 The Gale Group. All rts. reserv.

05400910 Supplier Number: 54487105 (USE FORMAT 7 FOR FULLTEXT)
OUT SIDE THE BOX.
MAHER, KATHELEEN
Interactivity, v3, n1, p33(1)
Jan, 1997
Language: English Record Type: Fulltext
Document Type: Magazine/Journal; Trade
Word Count: 2839

... joined their group. Their project had two parts. First, they created a communication device using **gloves** with **sensors**, an eyepiece with a retinal scanning device similar to that created by the HIT Lab in Seattle, a **microphone**, and a loudspeaker. Clearly, the team's industrial designers devoted a lot of effort to creating the **mic /speaker**, hand controls, and eye piece that functioned as a sleek and futuristic accessory rather...

14/3,K/8 (Item 4 from file: 16)
DIALOG(R)File 16:Gale Group PROMT(R)
(c) 2006 The Gale Group. All rts. reserv.

03377614 Supplier Number: 44686990 (USE FORMAT 7 FOR FULLTEXT)
SMOOTH AND SUPERSONIC
Flight International, p32
May 18, 1994
Language: English Record Type: Fulltext
Document Type: Magazine/Journal; Trade
Word Count: 1415

... testing of the XL-2. Unlike the XL-1, which had a proof-of-concept **glove** design, the "Ship 2" was designed to test a passive **glove** which would more closely resemble an HSCT-like design. The **glove** retained the inboard shaping and sharp leading edge of the XL wing.

INSTRUMENTED GLOVE

The foam and glassfibre-reinforced-plastic **glove** was built by McDonnell Douglas and extends from the inboard region of the starboard wing to the 50degrees-70degrees sweep break to about 10% chord on the upper surface. The **glove** is instrumented with five rows of flush static-pressure **sensors**, three flush **microphones** and rows of hot-film **sensors**. The **glove** is designed for 3degrees angle of attack and Mach 1.6 to 1.8, but it has been tested over speeds of up to Mach 1.9.

The **glove** covers a 4.5m span, is 300mm wide and has yielded detailed surface -pressure distribution...

...by a team from Rockwell, Boeing and McDonnell Douglas to design a much larger active **glove** for the port wing of the XL-2.

The new **glove** will be delivered to NASA in December and will look similar to the unit formerly...

...laminar flow across 50-60% of the local chord. The middle two-thirds of the **glove** will form the active area and will receive suction from a Boeing 707 turbo-compressor...

14/3,K/11 (Item 7 from file: 16)
DIALOG(R)File 16:Gale Group PROMT(R)
(c) 2006 The Gale Group. All rts. reserv.

02210693 Supplier Number: 42879497 (USE FORMAT 7 FOR FULLTEXT)
'Virtual Reality' - Changing the Face of Chemistry
Speciality Chemicals, p164
April, 1992
Language: English Record Type: Fulltext
Document Type: Magazine/Journal; Trade
Word Count: 1293

... headset, and provides the wearer with a three-dimensional view of an imaginary world; a **glove** fitted with fibre-optic **sensors**, known as a **DataGlove**, which manipulates imaginary objects in the imaginary world; and a set of computers calculating the...

...of the virtual world, at about 32 million commands per second.

If the HMD and **glove** are linked not to a computer model but to a robot that has two eyes...

...another as human eyes are, a neck that can move like a human neck, ears containing **microphones** and a handlike gripping device, the system is known as a teleoperator or telerobotic system...

...Zimmerman, a computer expert who wanted to play 'air guitar', in which, by wearing a **glove** hooked up to a synthesiser, the user could create a series of notes by stroking the air. They joined forces and developed the first **glove**, the prototype for the **DataGlove** now used in nearly all virtual reality systems.

Lanier and Zimmerman also developed a programming language that used the **glove** to interact with the computer and could build three-dimensional computer graphic models. VPL also...

14/3,K/15 (Item 3 from file: 47)
DIALOG(R)File 47:Gale Group Magazine DB(TM)
(c) 2006 The Gale group. All rts. reserv.

04240564 SUPPLIER NUMBER: 16626799 (USE FORMAT 7 OR 9 FOR FULL TEXT)
**Dressing for VR. (virtual reality devices) (includes related article on
business applications) (Hardware Review) (Evaluation)**
Epranian, Brad
PC Magazine, v14, n5, p183(7)
March 14, 1995
DOCUMENT TYPE: Evaluation ISSN: 0888-8507 LANGUAGE: ENGLISH
RECORD TYPE: FULLTEXT; ABSTRACT
WORD COUNT: 3289 LINE COUNT: 00294

... 000 InsideTRAK (\$2,250), is an ISA card that ships with a transmitter and two **sensors**. The **InsideTRAK** delivers smooth motion tracking. Most of the VR software-development environments support InsideTRAK. The development...

...plugs into the serial port. The unit consists of a tracking transmitter and a receiver/ **microphone**, as well as an external box to translate between the two. The tracker **provides** 6DOF for up to four **sensors** without extra cabling. This style of tracking can be highly accurate as long as you...

...to the transmitter.

* Full Freedom Plus Input

InWorld VR's CyberWand (\$99) with optional Polhemus **sensor** (\$765) is basically the handle of a Flight Control System without the base. The virtual **controller**'s four buttons and 2-D hat **sensor** track six degrees of movement.

Fifth Dimension Technologies (SDT) has announced its 5th Glove data...

...The DFK provides a data glove, a flexor strip (with an elbow- or knee-joint **sensor**), an interface card, cables, and KineMusica software. The package is intended as an affordable alternative...track movement from up to two meters away from the unit's transmitter.

The costly **CyberGlove** (\$9,800), from Virtual Technologies, is the state-of-the art, high-end **data glove** for completely reactive immersive environments. The spandex-like **glove** houses 18 sensors to track accurately just about every move your hand is capable of...

...dimensional hand model that can be added to whatever VR application you're using. The **glove** includes a mount for Polhemus and Ascension sensors.

VISUALS

So now your PC can render...

14/3,K/22 (Item 4 from file: 148)
DIALOG(R)File 148:Gale Group Trade & Industry DB
(c)2006 The Gale Group. All rts. reserv.

04587033 SUPPLIER NUMBER: 08997311 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Surreal thing! Tomorrow's world is at hand. (communications technology)
Burr, Martin
British Telecom World, p36(3)
March, 1990
ISSN: 0953-8429 LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT
WORD COUNT: 1574 LINE COUNT: 00119

... wearer with an artificial reality which it creates either from
digitally stored data or from **sensory** information transmitted by a remote
robot.

Dr James Larimer, chief of NASA's Human Interface...

...It consists of a very wide field-of-view stereo head-mounted display and
instrumented **gloves**, together with head and hand position and orientation
sensors, three-dimensional sound generators, and a voice interaction
system.

The helmet's eyepieces provide a normal view of the image projected
by the computer while the **built - in microphone** and earpieces let the
user hear and speak to it.

The helmet's tracking devices...

...at the desk to see what it would be like to work there.

The interactive **glove**, called a **DataGlove**, is used in conjunction
with the headset. Fibre-optic cables, similar to the ones used...

...end which converts the light into an electrical signal recognisable by
the computer.

A separate **sensor**, like the one in the helmet, determines the
position of the hand in space and an image of the...

...moves with the user's hand, allowing him to pick up and move objects.

The **glove**, for example, could be used by an astronaut to control
the docking of a space...

...model with your real hand. So you are manipulating data through the
mechanism of the **glove** to bring the shuttle to the appropriate space
landing station

New voice-command technology being...

...farther so that the user can just tell the shuttle what to do.

One day, **DataGloves** could enable an astronaut to manipulate the
movements of a robot working outside the spacecraft...

14/3,K/23 (Item 5 from file: 148)
DIALOG(R)File 148:Gale Group Trade & Industry DB
(c)2006 The Gale Group. All rts. reserv.

04511747 SUPPLIER NUMBER: 08112336 (USE FORMAT 7 OR 9 FOR FULL TEXT)
The decade to come. (1990s)
Henning, Edward
PC User, n124, p48(3)
Jan 17, 1990
ISSN: 0263-5720 LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT; ABSTRACT
WORD COUNT: 3066 LINE COUNT: 00225

... business computing. The benefits of this are clear -- I could talk this article into a **microphone** much faster than I can type it **in** -- but there are a couple of major drawbacks.

In open-plan style offices, with several...

...to become available with PCs during the first half of the next decade -- helmet and **glove** technology. The helmet is a device that fits over the head and gives you a full 3D image projection in front of the eyes. Stereo sound is also **supplied**, and **sensors** detect eye movements so that the device can detect just what you're looking at. (This is actually being developed for USAF fighter pilots.)

The **gloves** contain **sensors** that determine the shape formed by the hands, so that you can manipulate objects that...

14/3,K/24 (Item 6 from file: 148)
DIALOG(R)File 148:Gale Group Trade & Industry DB
(c)2006 The Gale Group. All rts. reserv.

04108694 SUPPLIER NUMBER: 07719786 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Artificial realities. (Looking into the future.) (column)
Aeh, Richard K.
Journal of Systems Management, v40, n9, p16(1)
Sept, 1989
DOCUMENT TYPE: column ISSN: 0022-4839 LANGUAGE: ENGLISH
RECORD TYPE: FULLTEXT; ABSTRACT
WORD COUNT: 488 LINE COUNT: 00041

...ABSTRACT: computer through realistic visual imagery, will fundamentally alter the way scientific researchers work with supercomputers in the near future. Position **sensors**, eye trackers, head-mounted displays, and wall-size screens will let users interpret data presented...

...and perform behavioral modeling. NASA's Ames Research Center is experimenting with artificial realities using **DATAGLOVE**, a device developed by VPL Research Inc that translates hand and finger movements into electrical signals carried by small fiber-optic cables. A head-mounted monitor with orientation and position **sensors** and a **microphone** wired for voice recognition let the user instruct the computer by talking, gesturing, and touching...

... computer, both real objects and abstractions, and be capable of behavioral modeling. Interaction devices will **include** position **sensors** and eye trackers for enhanced detail, and headmounted displays and wall-size screens for broadened...

...the National Aeronautics and Space Administration has constructed several artificial realities utilizing headmounted monitors and **DATAGLOVE**

A head-mounted monitor with a position and orientation **sensor**, **gloves** that track hand and finger movements, and a **microphone** wired for voice recognition can transport a user to a computer-generated reality. The user issues instructions to the computer by talking, pointing, gesturing and actually handling graphic images.

DATAGLOVE, developed by VPL Research Inc., translates hand and finger movements into electrical signals carried by small fiber-optic cables in each finger of the **glove**. The cables are treated so that light escapes when a finger flexes, and phototransistors convert the light received into electrical signals. Position and orientation **sensors** are produced by the Polhemus Navigation Sciences division of the McDonnell Douglas Corporation.

What may...

14/3,K/26 (Item 1 from file: 160)
DIALOG(R)File 160:Gale Group PROMT(R)
(c) 1999 The Gale Group. All rts. reserv.

02373808

The power glove

Design News December 4, 1989 p. 63-68

ISSN: 0011-9407

Mattel's **Power Glove** transforms technology developed for a \$10,000 NASA robotic computer peripheral into the hottest toy on the market. The **power glove** replaces video game joysticks and allows users to remotely control a video game screen with 3-D arm movements. The \$75 microprocessor controlled toy comes with **sensors** and a programmable keyboard and feeds positioning information to a L-bar **microphone** using ultrasonic transmitters. Matel's **Power Glove** technology was developed by Abrams Gentile Entertainment, a New York-based company, and exploits the...

Set	Items	Description
S1	89676	GLOVE? OR MITT? ? OR MITTEN? OR HAND()WEAR??? OR HANDWEAR? OR HAND()APPAREL? OR HAPTIC?()INTERFACE? OR WEARABL?()COMPUT?
S2	2826	FINGER?(2N) (MITTEN? OR COVER? OR MUFF OR CUFF??? ? OR GAUNTLET? OR APPAREL? OR SHEATH? OR SLEEVE? OR PROTECT? OR VIRTUAL() REALIT?)
S3	57466	MICROPHONE? OR MICRO()PHONE? OR INPUT()TRANSDUCER?()DEVICE? OR CONDENSER() (MIC OR MIKE) OR MIC
S4	14037	S3(5N) (CONTAIN??? OR PROVID? OR SUPPLY? OR SUPPLIE? ? OR FURNISH? OR EMBED? OR FIT OR FITS OR FITTED OR FITTING OR BUILT-IN OR (BUILD? OR BUILT) () IN OR PRE()SUPPL? OR INCLUD?)
S5	21474	S3(5N) (WITHIN OR INSIDE? OR INTERNAL? OR INTERIOR? OR INTERIOR? OR IN OR INTRA OR SELF()CONTAIN??? OR HAS OR CONTAIN??? OR INLAY? OR ATTACH? OR INGRAIN? OR IMPLANT? OR INCLUS?)
S6	481838	CONTROLLER? OR ACTUATOR? OR SENSOR? OR SERVOMECHANISM? OR - SERVO()MECHANISM? OR (HAND()HELD OR HANDHELD?) () (DEVICE? OR APPARAT? OR MECHANISM?)
S7	202195	S6(5N) (CONTAIN??? OR PROVID? OR SUPPLY? OR SUPPLIE? ? OR FURNISH? OR EMBED? OR FIT OR FITS OR FITTED OR FITTING OR BUILT-IN OR (BUILD? OR BUILT) () IN OR PRE()SUPPL? OR INCLUD?)
S8	297329	S6(5N) (WITHIN OR INSIDE? OR INTERNAL? OR INTERIOR? OR INTERIOR? OR IN OR INTRA OR SELF()CONTAIN??? OR HAS OR CONTAIN??? OR INLAY? OR ATTACH? OR INGRAIN? OR IMPLANT? OR INCLUS?)
S9	120	S1:S2(100N) S3:S5(100N) S6:S8
S10	39	S9 NOT AD>2000
S11	39	S10 NOT AD=2001:2006
S12	876	AU=(MILLER S? OR MILLER, S?)
S13	377	(STEPHEN OR STEVEN OR STEVE OR STEVIE) (2N)MILLER
S14	932	S12:S13
S15	16	S14 AND S1:S2
S16	7	S15 NOT AD>2000
S17	7	S16 NOT AD=2001:2006
S18	46	S11 OR S17
S19	46	IDPAT (sorted in duplicate/non-duplicate order)
S20	723	(HAND? ? OR FINGER? OR PALM??? ?) (10N) (PROSTHETIC? OR PROSTHES?)
S21	2	S20(100N) S3:S5(100N) S6:S8
S22	0	S21 NOT S18
S23	680	(BODY? OR CYBER? OR DATA) () (SUIT? ? OR GLOVE?) OR BODYSUIT? OR CYBERGLOVE? OR DATAGLOVE?
S24	17	S23(100N) S3:S5(100N) S6:S8
S25	8	S24 NOT S17:S18

File 348:EUROPEAN PATENTS 1978-2006/ 200619
(c) 2006 European Patent Office
File 349:PCT FULLTEXT 1979-2006/UB=20060511,UT=20060504
(c) 2006 WIPO/Univentio

19/3,K/11 (Item 11 from file: 349)
DIALOG(R) File 349:PCT FULLTEXT
(c) 2006 WIPO/Univentio. All rts. reserv.

00458276

ARTIFICIAL SENSIBILITY
SENSIBILITE ARTIFICIELLE

Patent Applicant/Assignee:

HAND MEDIC HB,
LUNDBORG Goran,

Inventor(s):

LUNDBORG Goran,

Patent and Priority Information (Country, Number, Date):

Patent: WO 9848740 A1 19981105

Application: WO 98SE786 19980429 (PCT/WO SE9800786)

Priority Application: SE 971595 19970429

Designated States:

(Protection type is "patent" unless otherwise stated - for applications prior to 2004)

AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES FI GB GE GH GM
GW HU ID IL IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD MG MK MN MW MX
NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT UA UG US UZ VN YU ZW GH
GM KE LS MW SD SZ UG ZW AM AZ BY KG KZ MD RU TJ TM AT BE CH CY DE DK ES
FI FR GB GR IE IT LU MC NL PT SE BF BJ CF CG CI CM GA GN ML MR NE SN TD
TG

Fulltext Word Count: 2332

Fulltext Availability:

Detailed Description

Detailed Description

... and perception of

changes also with respect to touch, temperature etc

The system requires a **sensor** system at the location for the touch,
processing and amplifying components and an equipment for...

...or the bone

conduction system of the cranium

In the prevailing invention the sensors are **microphones** or equivalent equipments of small dimensions which can register "the friction sound" (vibrotactile stimulus) which...materials are touched e.g. metal, glas, rubber foam, linen, an orange or an apple. In a hand prosthesis **microphones** can be incorporated directly in the fingers of the prosthesis. In regard to hands with lost and impaired sensibility the **sensor** /sensors can be incooperated in a **glove** which can be applied to the damaged hand. The sensors can also be applied directly...

19/3,K/13 (Item 13 from file: 349)
DIALOG(R) File 349:PCT FULLTEXT
(c) 2006 WIPO/Univentio. All rts. reserv.

00290644 **Image available**

VIRTUAL REALITY NETWORK

RESEAU DE REALITE VIRTUELLE

Patent Applicant/Assignee:

VIRTUAL UNIVERSE CORPORATION,

Inventor(s):

DURWARD James,
LEVINE Jonathan,
NEMETH Michael,
PRETTEGIANI Jerry,
TWEEDIE Ian T,

Patent and Priority Information (Country, Number, Date):

Patent: WO 9508793 A1 19950330

Application: WO 94CA529 19940922 (PCT/WO CA9400529)

Priority Application: US 93125950 19930923

Designated States:

(Protection type is "patent" unless otherwise stated - for applications prior to 2004)

AU BR CA CN FI JP KP KR NO NZ RU VN AT BE CH DE DK ES FR GB GR IE IT LU
MC NL PT SE

Publication Language: English

Fulltext Word Count: 7449

Fulltext Availability:

Detailed Description

Detailed Description

... 18 is equipped with a computer 42, a head-mounted display 46, earphones 50, a **microphone** 52, a head position **sensor** 53, and an instrumented garment 54, User 22 is ordinarily equipped in the same manner...

...associated with the displayed virtual space from central control unit 14 via computer 42, and **microphone** 52 communicates sounds from user 18 via computer 42 to central control unit 14 which, in turn, merges the sounds received into the virtual space. Head position **sensor** 53 senses the position and/or orientation of the user's head relative to computer...

...communicates the data to central control unit 14. Instrumented garment 54 is shown as a **glove** in this embodiment, but other instrumented garments such as shirts, pants, or full-body suits...

...to central control unit 14, Central control unit 14 uses the data from head position **sensor** 53 and instrumented garment 54 to define a virtual being within the virtual space. Thefrom head position **sensor** 53 may be used to define an aircraft carrier, and data from instrumented garment 54 may be used to define an aircraft.

Although head-mounted display 46, earphones 50, **microphone** 52, head position **sensor** 53 and instrumented **glove** 54 are shown attached to computer 42 through wires, any or all

of these elements...

19/3,K/31 (Item 31 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT
(c) 2006 WIPO/Univentio. All rts. reserv.

00529567 **Image available**

TELE-DIAGNOSTIC DEVICE

DISPOSITIF DE TELEDIAGNOSTIC

Patent Applicant/Assignee:

GOPINATHAN Govindan,
TILFORD Arthur R,

Inventor(s):

GOPINATHAN Govindan,
TILFORD Arthur R,

Patent and Priority Information (Country, Number, Date):

Patent: WO 9960919 A1 19991202

Application: WO 99US11033 19990519 (PCT/WO US9911033)

Priority Application: US 9884647 19980526

Designated States:

(Protection type is "patent" unless otherwise stated - for applications prior to 2004)

AE AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES FI GB GD GE
GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD MG MK
MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT UA UG UZ VN YU
ZA ZW GH GM KE LS MW SD SL SZ UG ZW AM AZ BY KG KZ MD RU TJ TM AT BE CH
CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE BF BJ CF CG CI CM GA GN GW
ML MR NE SN TD TG

Publication Language: English

Fulltext Word Count: 6929

Fulltext Availability:

Detailed Description

Claims

Detailed Description

... and infra-red

(880-1000 nm) LED emitter 72 and an LED (600-1000 nm)

sensor 74. The LED emitter 72 is preferably secured to the inner surface of the first...

...36 of ring finger phalange portion 11 of the glove probe 12 and the LED sensor 74 is preferably secured to the inner surface on the dorsal surface 38 of the...

...phalange portion 11 of the glove probe such that the LED emitter faces the LED sensor. The LED emitter 72 is connected to a pair of wires 76 which extend between and electrically connect the LED emitter and the female connection plug 48. The LED sensor 74 is connected to a pair of wires 78 which extend between and electrically connect the LED sensor and the female connection plug 48. The device 70 is preferably made of parts...

...of

detecting the sound waves local to the patient's heart and lungs and preferably includes an acoustical coupler and microphone 82, an air tube 84, and a pair of wires 86. The acoustical coupler and microphone 82 is preferably secured to the right side of the palm portion of the palmar...

...of the glove probe 12, preferably on the first layer 30. The acoustical coupler and **microphone** 82 is capable of collecting and amplifying sound waves in relative close proximity to the acoustical coupler and **microphone** . The air tube 84 **includes** a first end 84a and a second end 84b. The first end 84a of the air tube 84 is preferably connected to the acoustical coupler -and **microphone** 82 and the second end 84b is adaptable for connection with a stethoscope. The air...

...connected to a stethoscope, extends between and provides audio communication between the acoustical coupler and **microphone** 82 and the stethoscope. The pair of wires 86 extend between and electrically connect the...

...manufactured by securing, by any suitable means, the wires, sensors, and other components to a **glove** , preferably made of cloth (i.e., the first layer 30). It should be noted that...

...flexible circuit technology, such as by using a conductive printable ink. The components of the **glove** probe 12 which do not extend past the second layer 32 are then covered by...Information
To obtain body temperature diagnostic information, the middle finger phalange portion 9 of the **glove** probe 12 is placed under the patient's tongue for a period of time sufficient...

...red LED emitter 72 (Figure 2) emits red and infra-red light toward the LED **sensor** 74. When the light from the LED emitter 72 is passed through the patient's finger (non painted finger nails only) at the nail, the LED **sensor** 74 detects the color light waves present. These signals are translated from light intensity and...

...above.

Auscultation Diagnostic Information

To listen to the heart and lungs of the patient, the **glove** probe 12 is moved over the patient's body to enable the acoustical coupler and **microphone** 82 to pick up, or hear, sound waves from the patient's heart and lungs...

Claim

... source of inflation fluid for inflating said air bladder.

16 A diagnostic probe comprising:

a **glove** member comprising a palm portion, a wrist portion and five phalange portions, said **glove** member adaptable to be worn on a person's hand; an EKG diagnostic device located on said **glove** member;

a blood pressure and pulse rate device located on said **glove** member; and
a temperature device located on said **glove** member.

17 The diagnostic probe of claim 16 further comprising a %02 device located on said **glove** member and an auscultation device.

18 The diagnostic probe of claim 17 further comprising an...
...and said plug.

19 The diagnostic probe of claim 18 wherein said EKG diagnostic device **includes** at least a first EKG **sensor** located on said palm portion, a second EKG **sensor** located on said wrist portion, and a third EKG **sensor** located on at least one of said phalange portions, said blood pressure and pulse rate...

...responsive to temperature changes, and said %02 device including a LED emitter and an LED **sensor**, said led **sensor** and led emitter being located on one of said phalange portions.

20 The probe of claim 19 wherein said auscultation device **includes** an acoustical coupler and **microphone**.

21 The probe of claim 19 wherein each of said EKG sensors includes a stainless...

...a sponge for supplying an electrical contact enhancing fluid, said sponge being disposed between said **glove** member and said screen.

19/3,K/33 (Item 33 from file: 349)
DIALOG(R) File 349:PCT FULLTEXT
(c) 2006 WIPO/Univentio. All rts. reserv.

00519383 **Image available**

METHOD AND ARRANGEMENT FOR CONTROLLING MEANS FOR THREE-DIMENSIONAL TRANSFER
OF INFORMATION BY MOTION DETECTION

PROCEDE ET SYSTEME DE COMMANDE POUR MOYENS DE TRANSFERT TRIDIMENSIONNEL
D'INFORMATIONS PAR DETECTION DE MOUVEMENTS

Patent Applicant/Assignee:

LINDEBERG Tony Paul,
BRETZNER Lars Magnus Casimir,

Inventor(s):

LINDEBERG Tony Paul,
BRETZNER Lars Magnus Casimir,

Patent and Priority Information (Country, Number, Date):

Patent: WO 9950735 A1 19991007
Application: WO 99SE402 19990316 (PCT/WO SE9900402)
Priority Application: SE 98884 19980316

Designated States:

(Protection type is "patent" unless otherwise stated - for applications
prior to 2004)

AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES FI GB GD GE GH
GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD MG MK MN
MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT UA UG US UZ VN YU
ZW GH GM KE LS MW SD SL SZ UG ZW AM AZ BY KG KZ MD RU TJ TM AT BE CH CY
DE DK ES FI FR GB GR IE IT LU MC NL PT SE BF BJ CF CG CI CM GA GN GW ML
MR NE SN TD TG

Publication Language: English

Fulltext Word Count: 9212

Fulltext Availability:

Detailed Description

Detailed Description

... interfaces today, Concerning three-dimensional information, other
interface tools, such as trackballs, joysticks and data **gloves** , are
also being used.

With the rapid development of information technology, a substantial
growth in...

...words, it can be expected that new interfaces will be developed based on
e.g. **sensor** information from cameras and **microphones** .

Especially, concerning three-dimensional information, interesting
developments are expected where three-dimensional information is mediated

...

19/3,K/35 (Item 35 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT
(c) 2006 WIPO/Univentio. All rts. reserv.

00509152 **Image available**
SYSTEM AND METHOD FOR VIBRO GENERATIONS
SYSTEME ET PROCEDE DE PRODUCTION DE VIBRATIONS

Patent Applicant/Assignee:

INMOTION TECHNOLOGIES LTD,
BARON Ehud,
MORDISON Michael,

Inventor(s):

BARON Ehud,
MORDISON Michael,

Patent and Priority Information (Country, Number, Date):

Patent: WO 9940504 A1 19990812
Application: WO 99IL66 19990202 (PCT/WO IL9900066)
Priority Application: US 9873534 19980203; US 9890267 19980622; US
98108472 19981115

Designated States:

(Protection type is "patent" unless otherwise stated - for applications
prior to 2004)

AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES FI GB GD GE GH
GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD MG MK MN
MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT UA UG US UZ VN YU
ZW GH GM KE LS MW SD SZ UG ZW AM AZ BY KG KZ MD RU TJ TM AT BE CH CY DE
DK ES FI FR GB GR IE IT LU MC NL PT SE BF BJ CF CG CI CM GA GN GW ML MR
NE SN TD TG

Publication Language: English

Fulltext Word Count: 13169

Fulltext Availability:

Detailed Description

Detailed Description

... the vibro command itself does not contain the data necessary to
generate the vibro output in an actuator .

For real-time vibro input a vibro input device streams vibro data into a
vibro...is any device that produces a vibro input including vibro
recording devices such as vibro **microphones** , vibro sensors, devices for
recording voice or other sound data or information, vibro feedback
devices such as vibro joysticks, a position, velocity and/or acceleration
sensor coupled to a pen or other writing implement. In one embodiment,
any device that produces...

...such as vibro feedback joysticks and steering wheels, and tactile
devices such as a vibro **glove** , smell/odor producing or spraying
devices, and fans.

Vibro server includes any device that either...

19/3,K/38 (Item 38 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT
(c) 2006 WIPO/Univentio. All rts. reserv.

00493893 **Image available**

A COMPUTERIZED DEVICE FOR IMPROVING MOTOR CONTROL IN AN INDIVIDUAL BY
SENSORY TRAINING

DISPOSITIF INFORMATISE PERMETTANT D'AMELIORER LA MOTRICITE CHEZ UN SUJET
PAR L'ENTRAINEMENT SENSITIF

Patent Applicant/Assignee:

SCIENTIFIC LEARNING CORPORATION,
MERZENICH Michael M,
BYL Nancy N,

Inventor(s):

MERZENICH Michael M,
BYL Nancy N,

Patent and Priority Information (Country, Number, Date):

Patent: WO 9925245 A1 19990527

Application: WO 98US23752 19981109 (PCT/WO US9823752)

Priority Application: US 97970339 19971114

Designated States:

(Protection type is "patent" unless otherwise stated - for applications
prior to 2004)

AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES FI GB GD GE GH
GM HR HU ID IL IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD MG MK MN MW
MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT UA UG US UZ VN YU ZW
GH GM KE LS MW SD SZ UG ZW AM AZ BY KG KZ MD RU TJ TM AT BE CH CY DE DK
ES FI FR GB GR IE IT LU MC NL PT SE BF BJ CF CG CI CM GA GN GW ML MR NE
SN TD TG

Publication Language: English

Fulltext Word Count: 6000

Fulltext Availability:

Detailed Description

Detailed Description

... sectional diagrams of yet another embodiment of stimulation system
200. Stimulation system 200 includes a **glove** -like stimuli device 700
with a plurality of finger stimuli rings 710, 720, 730, 740...

...finger tip segment 795 of a finger of individual 290 is resting on
probes 770. **Actuators** 780 are operatively coupled to probes 770 and are
guided by channels 760. Blunt probe tips of probes 770 are in contact
with finger tip pad 795b. Stimuli is selectively **provided** to individual
290 by controlling **actuators** 780 which moves one or more of the blunt
tips of probes 770 towards and away from pad 795b.
Note that **actuators** 780 are located on the back of the hand, i.e., on
the nail 795a...

...pad 795b. Such an arrangement maximizes the freedom of movement that can
be provided by **glove** -like stimuli device 700 to the fingers.

Feedback from individual 290 can be verbal, i.e., via a **microphone** , or
via a motion of the finger(s). Accordingly, three-dimensional position
sensing capability can be incorporated into **glove** -like stimuli device
700. An optional corresponding model of the hand can be displayed on

19/3,K/40 (Item 40 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT
(c) 2006 WIPO/Univentio. All rts. reserv.

00456962 **Image available**

GONIOMETER-BASED BODY-TRACKING DEVICE AND METHOD

DISPOSITIF ET PROCEDE DE SUIVI DE MOUVEMENTS DU CORPS, A BASE DE GONIOMETRE

Patent Applicant/Assignee:

VIRTUAL TECHNOLOGIES INC,

Inventor(s):

KRAMER James F,

ANANNY John M,

BENTLEY Loren F,

KORFF Paul L,

BORONKAY Allen R,

McNAMARA Conor,

Patent and Priority Information (Country, Number, Date):

Patent: WO 9847426 A1 19981029

Application: WO 98US8381 19980421 (PCT/WO US9808381)

Priority Application: US 9744495 19970421; US 9754745 19970808

Designated States:

(Protection type is "patent" unless otherwise stated - for applications prior to 2004)

AU CA JP KR AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE

Fulltext Word Count: 16801

Fulltext Availability:

Detailed Description

Detailed Description

... such to provide a functional description of how to create a 3-degree-of-freedom orientation **sensor** from rotary joints, and where the axes of the rotary joints all converge at a... vibration by a control program. A useful body-function-sensing element is an EMG 5601 **sensor**, so muscle electrical activity may be correlated to resulting joint motion. Another useful parameter to computer 5616, a body position and

orientation **sensor** 5617 (e.g., inertial or electromagnetic, optical or ultrasonic), EKG **sensor** 5602, **microphone** 5606, respiration **sensor** 5607, earphone 5608, EEG **sensor** 5609 attached to headband 5610 or to hood 5611 of suit, EOG **sensor** 5612, eye tracker and/or facial expression monitor 5613 and force/pressure/contact sensors 5603...

... elements included in the figure include a golf ball 5619, golf club 5614 and instrumented **glove** 5615, such as a CyberGlove. Such a body-sensing and feedback

40

suit finds utility like

FIGs. 57A - 57C add angle sensors and plates to the axial rotation

sensor of FIG. 50. Plates 5704 and 5705, which are flexible about their minimum-moment-of...

19/3,K/43 (Item 43 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT
(c) 2006 WIPO/Univentio. All rts. reserv.

00326294 **Image available**

NEED-ADAPTIVE ARCHITECTONIC SYSTEM FOR LEARNING/COMMUNICATING
SYSTEME ARCHITECTONIQUE ADAPTE AUX BESOINS, POUR APPRENDRE ET COMMUNIQUER

Patent Applicant/Assignee:

TROUDET Farideh,

TROUDET Terry,

Inventor(s):

TROUDET Farideh,

TROUDET Terry,

Patent and Priority Information (Country, Number, Date):

Patent: WO 9608804 A1 19960321

Application: WO 95US11581 19950912 (PCT/WO US9511581)

Priority Application: US 94306141 19940914; US 94328393 19941024; WO

94US12682 19941115; US 95470263 19950606

Designated States:

(Protection type is "patent" unless otherwise stated - for applications prior to 2004)

AU CA CN GB JP US US AT BE CH DE DK ES FR GB GR IE IT LU MC NL PT SE

Publication Language: English

Fulltext Word Count: 46253

Fulltext Availability:

Detailed Description

Detailed Description

... counter output and tape location, the tape can be automatically rewinded each time the audio- **controller** 1003 is enabled, and the counter subsequently cleared by 1003. At the beginning/end of...

...button 1017,

or "Stop" switch-button 10 18, respectively, The speaker 10 19, and the **microphone** 1020, can be mounted to the audio player/recorder 1002

either

permanently, or removably by means of automatic rewinders 102 1. An alternate embodiment is that of a **microphone** **embedded** **within** the tip portion of a **glove** finger.

A less adaptive embodiment would be that of a **glove** , or picture- **glove**

having a mini audio-caMUCplayer/recorder mounted in the back portion

32

thereof for the...

25/3,K/2 (Item 2 from file: 348)
DIALOG(R) File 348:EUROPEAN PATENTS
(c) 2006 European Patent Office. All rts. reserv.

01201704

SPEECH CONVERTING DEVICE AND METHOD

SPRACHE UMWANDLUNG GERAT UND VERFAHREN

DISPOSITIF DE CONVERSION DE LA PAROLE ET PROCEDE CORRESPONDANT

PATENT ASSIGNEE:

Yugen Kaisha GM & M, (3099270), 22-83 Yotsuga 4-chome, Shinjuku-ku, Tokyo
160-0004, (JP), (Applicant designated States: all)

INVENTOR:

OBA, Toshihiko, 8-3, Zenpukuji 2-chome, Suginami-ku, Tokyo 167-0041, (JP)

LEGAL REPRESENTATIVE:

DeVile, Jonathan Mark (91151), D. Young & Co 21 New Fetter Lane, London
EC4A 1DA, (GB)

PATENT (CC, No, Kind, Date): EP 1083769 A1 010314 (Basic)

WO 0049834 000824

APPLICATION (CC, No, Date): EP 903984 000216; WO 00JP872 000216

PRIORITY (CC, No, Date): JP 9937558 990216; JP 9937559 990216

DESIGNATED STATES: AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI;
LU; MC; NL; PT; SE

INTERNATIONAL PATENT CLASS (V7): H04R-003/00; H04R-025/00

ABSTRACT WORD COUNT: 128

NOTE:

Figure number on first page: 2

LANGUAGE (Publication,Procedural,Application): English; English; Japanese

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200111	3013
SPEC A	(English)	200111	17587
Total word count - document A			20600
Total word count - document B			0
Total word count - documents A + B			20600

...SPECIFICATION with the information as to the user's position and attitude, a small-sized gyro- **sensor** (GU3011 Data-tech) and the acceleration-sensor are mounted on the user's head and...

...the present HA 1, the AR can be reinforced by employing, in addition to the **sensor** 31, a status recognition system (example: Ubiquitous Talker (Sony CSL)), the following various **sensor** systems which are other systems forming a VR-system, a display system and this HA...

...modality.

For forming the spaces, such as VR or AR, the user sends to the **sensor** 31 in person the information which then is forwarded to the system integrating the VR forming systems to forward the information from the display system to the user.

There are following devices in the **sensor** 31 (information inputting system).

The following devices may be used as the devices which capture the movements of the human body or act on the space: an optical 3D- **sensor** for measuring the position (Expert Vision HiRES and Face Tracker (Motion Analysis)), a magnetic 3D- **sensor** for measuring the position (InsideTrack (Polhemus), a 3SPACE system (Polhemus), Bird (Ascension Tech)), a mechanical 3D-Digitizer (MicroScribe 3D Extra...

...finger (NTT human interface labo), globe-type device (DetaGlove (VPL

Res), Super Glove (Nissho Electronics) **Cyber Glove** (Virtual Tech)),
Force-feedback (Haptic Master (Nissho Electronics), PHANTOM (SensAble
Devices), 3D- mouse (Space Controllera system which measures the motion
of the whole body (**Data Suit** (VPL Res)), a motion capture system
(HiRES (Motion Analysis)), a sensor for measuring acceleration (3D...

25/3,K/5 (Item 3 from file: 349)
DIALOG(R) File 349:PCT FULLTEXT
(c) 2006 WIPO/Univentio. All rts. reserv.

00776301 **Image available**

METHOD AND APPARATUS FOR POWERED INTERACTIVE PHYSICAL DISPLAYS
PROCEDE ET APPAREIL A DES SYSTEMES DE PRESENTATION PHYSIQUE INTERACTIVE
MOTORISEE

Patent Applicant/Inventor:

LINDEN Craig L, 1335 Midway Drive, Alpine, CA 91901, US, US (Residence),
US (Nationality)

Patent and Priority Information (Country, Number, Date):

Patent: WO 200109863 A1 20010208 (WO 0109863)

Application: WO 2000US21014 20000731 (PCT/WO US0021014)

Priority Application: US 99146782 19990731; US 99149804 19990818; US
99170089 19991209

Designated States:

(Protection type is "patent" unless otherwise stated - for applications
prior to 2004)

AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CR CU CZ DE DK DM DZ EE
ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT
LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM
TR TT TZ UA UG US UZ VN YU ZA ZW

(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE

(OA) BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG

(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW

(EA) AM AZ BY KG KZ MD RU TJ TM

Publication Language: English

Filing Language: English

Fulltext Word Count: 8839

Fulltext Availability:

Detailed Description

Detailed Description

... 602 discloses a PC peripheral interactive doll for teaching,
entertaining, and habituating a child, which **includes** a **microphone**, a
speaker, and **servo - mechanisms** for providing doll motion, such as eye,
mouth and limb movement, controlled by CD-ROM...

...Typical force-feedback enabled input/output devices may include
joysticks, computer mice, advanced wearable gloves, **bodysuits**, and
various types of multi-axis manipulator arms and systems. The typical
devices being controlled...

...force-feed back structures and AI to send information back to the user's
input **controllers** and systems, thus allowing higher levels of
telerobotics.

Remote cameras and local monitors may also...

Set	Items	Description
S1	42940	GLOVE? OR MITT? ? OR MITTEN? OR HAND()WEAR??? OR HANDWEAR? OR HAND()APPAREL? OR HAPTIC?()INTERFACE? OR HAND()WEARABL?()C- OMPUT? OR HAPTIC?
S2	1486	(BODY? OR CYBER? OR DATA)() (SUIT? ? OR GLOVE?) OR BODYSUIT? OR CYBERGLOVE? OR DATAGLOVE?
S3	880	FINGER?(2N) (MITTEN? OR COVER? OR MUFF OR CUFF??? ? OR GAUN- TLET? OR APPAREL? OR SHEATH? OR SLEEVE? OR PROTECT? OR VIRTUA- L()REALIT?)
S4	2067	(HAND? ? OR FINGER? OR PALM??? ?) (10N) (PROSTHETIC? OR PROS- THES?)
S5	74289	MICROPHONE? OR MICRO()PHONE? OR INPUT()TRANSDUCER?()DEVICE? OR CONDENSER() (MIC OR MIKE) OR MIC
S6	3687	S5(7N) (CONTAIN??? OR PROVID? OR SUPPLY? OR SUPPLIE? ? OR F- URNISH? OR EMBED? OR FIT OR FITS OR FITTED OR FITTING OR BUIL- TIN OR (BUILD? OR BUILT) () IN OR PRE()SUPPL? OR INCLUD?)
S7	22666	S5(7N) (WITHIN OR INSIDE? OR INTERNAL? OR INTERIOR? OR INTE- RIOUR? OR IN OR INTRA OR SELF()CONTAIN??? OR HAS OR CONTAIN??? OR INLAY? OR ATTACH? OR INGRAIN? OR IMPLANT? OR INCLUS?)
S8	1671394	CONTROLLER? OR ACTUATOR? OR SENSOR? OR SERVOMECHANISM? OR - SERVO()MECHANISM? OR (HAND()HELD OR HANDHELD?) () (DEVICE? OR A- PPARAT? OR MECHANISM?)
S9	124440	S8(7N) (CONTAIN??? OR PROVID? OR SUPPLY? OR SUPPLIE? ? OR F- URNISH? OR EMBED? OR FIT OR FITS OR FITTED OR FITTING OR BUIL- TIN OR (BUILD? OR BUILT) () IN OR PRE()SUPPL? OR INCLUD?)
S10	551225	S8(7N) (WITHIN OR INSIDE? OR INTERNAL? OR INTERIOR? OR INTE- RIOUR? OR IN OR INTRA OR SELF()CONTAIN??? OR HAS OR CONTAIN??? OR INLAY? OR ATTACH? OR INGRAIN? OR IMPLANT? OR INCLUS?)
S11	4	S1:S4 AND S6:S7 AND S9:S10
S12	23	S1:S4 AND S5:S7 AND S8:S10
S13	23	S11:S12
S14	13	S13 NOT PY>2000
S15	12	RD (unique items)
S16	16211	AU=(MILLER S? OR MILLER, S?)
S17	170	(STEPHEN OR STEVE OR STEVEN OR STEVIE) (2N)MILLER
S18	6	S1:S4 AND S16:S17
S19	6	S18 NOT S15
S20	4	S19 NOT PY>2000
S21	4	RD (unique items)
S22	25	S1:S4(10N)S5
S23	2455	S1:S4(10N)S8
S24	9	S22 AND S23
S25	8	S24 NOT S15
S26	25	S22 OR S24:S25
S27	8	S26 NOT PY>2000
S28	6	RD (unique items)
File	2:INSPEC	1898-2006/May W1 (c) 2006 Institution of Electrical Engineers
File	6:NTIS	1964-2006/May W1 (c) 2006 NTIS, Intl Cpyrght All Rights Res
File	8:EI	Compendex(R) 1970-2006/May W1 (c) 2006 Elsevier Eng. Info. Inc.
File	34:SciSearch	(R) Cited Ref Sci 1990-2006/May W1 (c) 2006 Inst for Sci Info
File	35:Dissertation	Abs Online 1861-2006/Apr (c) 2006 ProQuest Info&Learning
File	56:Computer and Information Systems	Abstracts 1966-2006/Apr (c) 2006 CSA.
File	60:ANTE: Abstracts in New Tech & Engineer	1966-2006/Apr (c) 2006 CSA.
File	62:SPIN	(R) 1975-2006/Mar W1

(c) 2006 American Institute of Physics
File 65:Inside Conferences 1993-2006/May 12
(c) 2006 BLDSC all rts. reserv.
File 94:JICST-EPlus 1985-2006/Feb W2
(c)2006 Japan Science and Tech Corp(JST)
File 95:TEME-Technology & Management 1989-2006/May W1
(c) 2006 FIZ TECHNIK
File 99:Wilson Appl. Sci & Tech Abs 1983-2006/Apr
(c) 2006 The HW Wilson Co.
File 111:TGG Natl.Newspaper Index(SM) 1979-2006/May 05
(c) 2006 The Gale Group
File 144:Pascal 1973-2006/Apr W3
(c) 2006 INIST/CNRS
File 239:Mathsci 1940-2006/Jun
(c) 2006 American Mathematical Society
File 256:TecInfoSource 82-2006/Jun
(c) 2006 Info.Sources Inc
File 434:SciSearch(R) Cited Ref Sci 1974-1989/Dec
(c) 1998 Inst for Sci Info
File 583:Gale Group Globalbase(TM) 1986-2002/Dec 13
(c) 2002 The Gale Group

15/3,K/4 (Item 1 from file: 6)

DIALOG(R)File 6:NTIS

(c) 2006 NTIS, Intl Cpyrght All Rights Res. All rts. reserv.

1847599 NTIS Accession Number: N95-14060/4

Verdex: A Virtual Environment Demonstrator for Remote Driving Applications

(Abstract Only)

Stone, R. J.

National Advanced Robotics Research Centre, Salford (England).

Corp. Source Codes: 107552000; NB325642

Sponsor: National Aeronautics and Space Administration, Washington, DC.

Jun 91 3p

Languages: English

Journal Announcement: GRAI9504; STAR3303

In NASA. Ames Research Center, Human Machine Interfaces for Teleoperators and Virtual Environments p 145-147.

NTIS Prices: (Order as N95-14013/3, PC A08/MF A02)

... assembly, facilities for speech recognition and synthesis (using the Marconi Macrospeak system), and a VPL **DataGlove** Model 2 unit. The vehicle to be used for the purposes of remote driving is a Cybermotion Navmaster K2A system, which will be equipped with a stereo camera and **microphone** pair, mounted on a motorized high-speed pan-and-tilt head incorporating a closed-loop laser ranging **sensor** for camera convergence control (currently under contractual development). It will be possible to relay information to and from the vehicle and **sensory** system via an umbilical or RF link. The aim is to develop an interactive audio...

... for vehicle driving and interaction using a graphical 'hand,' slaved to the flex and tracking **sensors** of the **DataGlove** and an additional helmet-mounted Polhemus IsoTrack **sensor**. Developments planned for the virtual environment test bed include transfer of operator control between remote...

... sensing (also the focus of a current ARRL contract, initially employing a 14-pneumatic bladder **glove attachment**), and **sensor**-driven world modeling for total virtual environment generation and operator-assistance in remote scene interrogation.

15/3,K/5 (Item 2 from file: 6)

DIALOG(R)File 6:NTIS

(c) 2006 NTIS, Intl Cpyrght All Rights Res. All rts. reserv.

1542219 NTIS Accession Number: PB91-108456

Interfacing the Nintendo Power Glove to a Macintosh Computer
(Technical rept. (Interim))

Williams, M. ; Green, P.

Michigan Univ., Ann Arbor. Transportation Research Inst.

Corp. Source Codes: 002797323

Sponsor: General Motors Corp., Detroit, MI.; Ford Motor Co., Dearborn, MI.; Motorola, Inc., Schaumburg, IL.; National Highway Traffic Safety Administration, Washington, DC.

Report No.: IVHS-TR-90-14; UMTRI-90-36

Sep 90 21p

Languages: English

Journal Announcement: GRAI9102

Sponsored by General Motors Corp., Detroit, MI., Ford Motor Co., Dearborn, MI., Motorola, Inc., Schaumburg, IL., and National Highway Traffic Safety Administration, Washington, DC.

Order this product from NTIS by: phone at 1-800-553-NTIS (U.S. customers); (703)605-6000 (other countries); fax at (703)321-8547; and email at orders@ntis.fedworld.gov. NTIS is located at 5285 Port Royal Road, Springfield, VA, 22161, USA.

NTIS Prices: PC A03/MF A01

Interfacing the Nintendo Power Glove to a Macintosh Computer

The article describes the software and hardware necessary to interface a Nintendo Power Glove to a Macintosh computer. Located on top of the hand are two speakers whose output is received by an array of three microphones. Right hand location (to the nearest 1/4 inch) and orientation are determined by three...

... all fingers on that hand except the little finger (flexed or extended) is provided. The glove is normally used as the input device to a video game. In this case the device serves as a sensor of driver hand position in human factors studies on the use of automobile controls. The hardware interface described controls the Power Glove's signal lines and converts the data from the Glove into RS-422 for the Macintosh serial port. The interface samples the Glove's position under control of a C program. In-vehicle tests have shown that some filtering of the data is required. When the glove is not pointed towards the sensors the ultrasonic pulse from the glove is reflected off of the windshield or instrument panel and the location of the glove is incorrectly identified. This is easily corrected.

Identifiers: Man machine systems; Apple Macintosh computers; Nintendo power glove ; Sensors ; NTISUMTRI

15/3,K/6 (Item 1 from file: 8)
DIALOG(R)File 8:Ei Compendex(R)
(c) 2006 Elsevier Eng. Info. Inc. All rts. reserv.

04761108 E.I. No: EIP97073740244

Title: Virtual interface agent and its agency

Author: Wachsmuth, Ipke; Lenzmann, Britta; Joerding, Tanja; Jung, Bernhard; Latoschik, Marc; Froehlich, Martin

Corporate Source: Univ of Bielefeld, Bielefeld, Ger

Conference Title: Proceedings of the 1997 1st International Conference on Autonomous Agents

Conference Location: Marina del Rey, CA, USA Conference Date: 19970205-19970208

E.I. Conference No.: 46654

Source: Proceedings of the Interantional Conference on Autonomous Agents 1997. ACM, New York, NY, USA. p 516-517

Publication Year: 1997

CODEN: 002624

Language: English

...Abstract: into effect by a multi-agent system. Three listener agents track and analyze multi-modal **sensor** data from the keyboard, the **microphone** , and the **data glove** , respectively. With the help of the parser, a coordinator analyzes and integrates the inputs received...

15/3,K/7 (Item 1 from file: 34)
DIALOG(R)File 34:SciSearch(R) Cited Ref Sci
(c) 2006 Inst for Sci Info. All rts. reserv.

01694169 Genuine Article#: HT331 No. References: 6
Title: **INACCURACY OF ELECTRONIC SPHYGMOMANOMETERS**
Author(s): MANN S
Corporate Source: WELLINGTON HOSP,HYPERTENS CLIN/WELLINGTON//NEW ZEALAND/
Journal: CLINICAL AND EXPERIMENTAL PHARMACOLOGY & PHYSIOLOGY, 1992, V19, N5
(MAY), P304-306
Language: ENGLISH Document Type: ARTICLE (Abstract Available) .

...Abstract: most accurate machine was the Omron HEM-719K, which used the cuff as a sound **sensor** and had an **internal microphone** . The least accurate was the Omron HEM-812F, which used a **finger - cuff** method. The other devices (all oscillometric) ranged from fair to poor in performance accuracy.

15/3,K/8 (Item 1 from file: 35)
DIALOG(R)File 35:Dissertation Abs Online
(c) 2006 ProQuest Info&Learning. All rts. reserv.

01101852 ORDER NO: AADDX-88085

CONTROL OF A MULTIFUNCTIONAL HAND PROSTHESIS (PROSTHESIS)

Author: BARKHORDAR, MOHAMMAD

Degree: PH.D.

Year: 1988

Corporate Source/Institution: UNIVERSITY OF SOUTHAMPTON (UNITED KINGDOM)
(5036)

Source: VOLUME 50/12-B OF DISSERTATION ABSTRACTS INTERNATIONAL.
PAGE 5756. 319 PAGES

CONTROL OF A MULTIFUNCTIONAL HAND PROSTHESIS (PROSTHESIS)

...the limb deficient population. This involves the development of transducers suitable for use with cosmetic **gloves** and real-time implementation of the Southampton strategy on a portable electronic **controller** .

The past work in the 'below elbow' prosthetic field is reviewed with an intention to highlight the features of...

...work.

With an intention to produce a multi-purpose transducer compatible for use with cosmetic **gloves** , a range of touch, slip and force transducers are developed. A unique optical touch transducer is described which relies on a pocket of air in the **glove** material to resolve a signal that varies in proportion to touch force. Based on this principle, also described are a slip and force transducer constructed using a subminiature **microphone** and a pressure **sensor** respectively. Finally, the suitability of strain gauges is considered as touch and force transducers. A novel strain gauge digitizer is devised to simplify their interface to the **controller** .

The control strategy is initially implemented on the minicomputer where the control algorithms are perfected to optimise the hand performance. Later on a dedicated microprocessor implementation resulting in a portable **controller** is presented. In addition to hardwired smoothing of the EMG supervisory signal, a further reduction in the **controller** size is demonstrated by performing this function in software. Suggestions are made for future work based on the experience gained during this project.

21/3,K/2 (Item 1 from file: 65)
DIALOG(R)File 65:Inside Conferences
(c) 2006 BLDSC all rts. reserv. All rts. reserv.

01133773 INSIDE CONFERENCE ITEM ID: CN011112389
Subsensory threshold electrical stimulation of the whole hand via a wired mesh glove in chronic stroke patients

CONFERENCE: Research in rehabilitation-5th European congress
JOURNAL OF REHABILITATION SCIENCES, 1995; VOL 8; NUMBER 3//SUP P: 36
Van Gorcum, 1995
ISSN: 0923-0211
LANGUAGE: English DOCUMENT TYPE: Conference Papers and abstracts
CONFERENCE EDITOR(S): Miller, S. ; Kallanranta, T.; Bussmann, H.
CONFERENCE LOCATION: Helsinki
CONFERENCE DATE: May 1995 (199505) (199505)

Subsensory threshold electrical stimulation of the whole hand via a wired mesh glove in chronic stroke patients

CONFERENCE EDITOR(S): Miller, S. ; Kallanranta, T.; Bussmann, H.

28/3,K/4 (Item 1 from file: 34)
DIALOG(R)File 34:SciSearch(R) Cited Ref Sci
(c) 2006 Inst for Sci Info. All rts. reserv.

07529655 Genuine Article#: 177GY No. References: 18

Title: **Hearing as substitution for sensation: A new principle for artificial sensibility**

Author(s): Lundborg G (REPRINT) ; Rosen B; Lindberg S

Corporate Source: MALMO UNIV HOSP, DEPT HAND SURG/S-20502 MALMO//SWEDEN/
(REPRINT)

Journal: JOURNAL OF HAND SURGERY-AMERICAN VOLUME, 1999, V24A, N2 (MAR), P
219-224

ISSN: 0363-5023 Publication date: 19990300

Publisher: CHURCHILL LIVINGSTONE INC MEDICAL PUBLISHERS, CURTIS CENTER,
INDEPENDENCE SQUARE WEST, PHILADELPHIA, PA 19106-3399

Language: English Document Type: ARTICLE (ABSTRACT AVAILABLE)

...Abstract: forearm, 1 patient using a myoelectric prosthesis, and 4 patients using cosmetic prostheses. Small condenser **microphones** were mounted dorsally on the distal phalanges of multiple **fingers** of the nonsensate **hands** or **prostheses**. The friction sound, reflecting the vibrotactile stimuli generated by the moving touch of the objects...

28/3,K/1 (Item 1 from file: 6)

DIALOG(R)File 6:NTIS

(c) 2006 NTIS, Intl Cpyrght All Rights Res. All rts. reserv.

0567835 NTIS Accession Number: AD-885 304/6/XAB

**The Design Requirements, Description and Functional Operation of the
A/P22S-4 and A/P22S-6 High Altitude, Flying Outfits**

(Technical rept)

Gillespie, K. W. ; Hochwalt, J. R.

Aeronautical Systems Div Wright-Patterson AFB Ohio

Corp. Source Codes: 008800

Report No.: ASD-TR-70-58

Apr 71 102p

Journal Announcement: GRAI7622

Distribution limitation now removed. Order this product from NTIS by:
phone at 1-800-553-NTIS (U.S. customers); (703)605-6000 (other countries);
fax at (703)321-8547; and email at orders@ntis.fedworld.gov. NTIS is
located at 5285 Port Royal Road, Springfield, VA, 22161, USA.

NTIS Prices: PC A06/MF A01

Descriptors: *Pressure suits; Design; Flight clothing; Helmets; **Gloves** ;
Pressurization; Ventilation; **Microphones** ; High altitude; Questionnaires